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| S28 5 | 602 | 726/1.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:36 |
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| S28 8 | 1336 | 726/4.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:36 |
| S28 9 | 695 | 726/5.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:36 |
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| S29 1 | 609 | 726/27.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:37 |
| S29 2 | 324 | 726/28.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:37 |
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| S29 4 | 272 | 726/30.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:38 |
| S29 5 | 5590 | 709/223.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:38 |
| S29 6 | 2696 | 709/225.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:38 |
| S29 7 | 3327 | 709/229.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:38 |
| S29 8 | 254 | SAML or (security adj3 assertion adj3 markup adj3 language) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:40 |
| S29 9 | 1 | (entity and identifier and mapping and (SAML or security adj3 assertion adj3 markup adj3 language) and account and group). CLM. | US-PGPUB; USPAT | OR | ON | 2007/02/28 07:42 |
| S30 0 | 447 | (account same mapping) and markup adj2 language | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:44 |
| S30 1 | 7 | S298 and S295 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:44 |
| S30 2 | 6 | S298 and S296 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:44 |
| S30 3 | 11 | S298 and S297 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 07:47 |

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| S30 5 | 157 | 726/8.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/28 11:59 |



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Terms used **SAML** and **mapping**

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1 [An integrated approach to federated identity and privilege management in open systems](#)


 Rafee Bhatti, Elisa Bertino, Arif Ghafoor
 February 2007 **Communications of the ACM**, Volume 50 Issue 2

Publisher: ACM Press

Full text available:  pdf(407.42 KB)  html(33.87 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Online partnerships depend on federations of not only user identities but also of user entitlements across organizational boundaries.

2 [Session 4: Web service applications: Towards securing XML Web services](#)


 Ernesto Damiani, Sabrina De Capitani di Vimercati, Pierangela Samarati
 November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**

Publisher: ACM Press

Full text available:  pdf(198.65 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Security is currently one of the main concerns about XML Web services. Several initiatives are currently ongoing aimed at achieving a standardized way for supporting integrity, confidentiality, and access control for XML Web services. This paper looks into these approaches and gives some hints for future research.

Keywords: SOAP, Web services, access control

3 [Security for Web services: Optimistic fair contract signing for Web services](#)


 Hiroshi Maruyama, Taiga Nakamura, Tony Hsieh
 October 2003 **Proceedings of the 2003 ACM workshop on XML security XMLSEC '03**

Publisher: ACM Press

Full text available:  pdf(120.24 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Reliable and atomic transactions are a key to successful e-Business interactions. Reliable messaging subsystems, such as IBM's MQ Series, or broker-based techniques have been traditionally used for this purpose. In this paper, we take a radically different approach to address this problem, which is to apply the idea of *Optimistic Fair Contract Signing* recently proposed by Asokan, Shoup, and Waidner. We show a design of the protocol based on the latest XML and Web Services Security standard ...

Keywords: Web services, fair contract signing, optimistic fair exchange

4 [The semantic e-business vision: Secure knowledge management and the semantic web](#)


 JinKyu Lee, Shambhu J. Upadhyaya, H. Raghav Rao, Raj Sharman
 December 2005 **Communications of the ACM**, Volume 48 Issue 12

Publisher: ACM Press

Full text available:  pdf(131.91 KB)  html(27.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Strengthening security within the domain of shared knowledge is a critical issue, and great challenge, to businesses today. A number of different protocols currently available offer an array of benefits and limitations.

5 Security and Middleware Services: Towards flexible credential verification in mobile ad-hoc networks




Sye Loong Keoh, Emil Lupu

October 2002

Proceedings of the second ACM international workshop on Principles of mobile computing POMC '02

Publisher: ACM Press

Full text available:  pdf(281.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Ad-hoc networks facilitate interconnectivity between mobile devices without the support of a network infrastructure. In this paper we propose a flexible credential verification mechanism, which improves the likelihood that participants in an ad-hoc network can verify each other's credentials despite the lack of access to certification and attribute authorities. Users maintain Credential Assertion Statements (CASs), which are formed through extraction of X.509 and attribute certificates into an i ...

Keywords: authentication, credential verification, security, trust

6 Applications: Digital media and entertainment service delivery platform



Christopher J. Pavlovski, Quentin Staes-Polet

November 2005

Proceedings of the first ACM international workshop on Multimedia service composition MSC '05

Publisher: ACM Press

Full text available:  pdf(415.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The emergence of broadband networks, for mobile and fixed environments, has stimulated the multimedia market for the delivery of enriched digital media and entertainment services. A key problem for institutions attempting to capitalize on these new channels for service delivery is a capability to deploy many multimedia services rapidly and cost effectively. The naïve technique is to deploy such solutions independently as so called point solutions. The strategic approach is the development o ...

Keywords: IP multimedia systems, digital media, reference architecture, service delivery platform, tripleplay, web service gateway

7 Trust requirements in identity management



Audun Jøsang, John Fabre, Brian Hay, James Dalziel, Simon Pope

January 2005

Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44 ACSW Frontiers '05

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(164.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Identity management refers to the process of representing and recognising entities as digital identities in computer networks. Authentication, which is an integral part of identity management, serves to verify claims about holding specific identities. Identity management is therefore fundamental to, and sometimes include, other security constructs such as authorisation and access control. Different identity management models will have different trust requirements. Since there are costs associate ...

8 DIM frameworks: A delegation framework for federated identity management



Hidehito Gomi, Makoto Hatakeyama, Shigeru Hosono, Satoru Fujita

November 2005

Proceedings of the 2005 workshop on Digital identity management DIM '05

Publisher: ACM Press



Full text available:  pdf(249.06 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Identity federation is a powerful scheme that links accounts of users maintained distinctly by different business partners. The concept of network identity is a driver for accelerating automation of Web Services on the Internet for users on their behalf while protecting privacy of their personally identifiable information. Although users of Web Services



essentially delegate some or all privileges to an entity to perform actions, current identity based systems do not take into sufficient consider ...

Keywords: access control, delegation, identity federation, privilege, role

- 9 [XML security: Certificate validation service using XKMS for computational grid](#)
 Namje Park, Kiyoun Moon, Sungwon Sohn
 October 2003 **Proceedings of the 2003 ACM workshop on XML security XMLSEC '03**
 Publisher: ACM Press
 Full text available:  pdf(7.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



A computational grid is a hardware and software infrastructure capable of providing dependable, consistent, pervasive, and inexpensive access to high-end computational resource. There are many ways to access the resources of a computational grid, each with unique security requirements and implications for both the resource user and the resource provider. Current Grid security Infrastructure using PKI based on SSO. But open grid service Security Infrastructure in Global Grid Forum(GGF) will exten ...

Keywords: GSI, XKMS, XML, XML security, certificate validation, grid, key management, security

- 10 [A survey of autonomic communications](#)
 Simon Dobson, Spyros Denazis, Antonio Fernández, Dominique Gai'ti, Erol Gelenbe, Fabio Massacci, Paddy Nixon, Fabrice Saffre, Nikita Schmidt, Franco Zambonelli
 December 2006 **ACM Transactions on Autonomous and Adaptive Systems (TAAS)**, Volume 1 Issue 2
 Publisher: ACM Press
 Full text available:  pdf(300.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Autonomic communications seek to improve the ability of network and services to cope with unpredicted change, including changes in topology, load, task, the physical and logical characteristics of the networks that can be accessed, and so forth. Broad-ranging autonomic solutions require designers to account for a range of end-to-end issues affecting programming models, network and contextual modeling and reasoning, decentralised algorithms, trust acquisition and maintenance---issues whose soluti ...

Keywords: Autonomic communication

- 11 [Ontologies and web services: Agents for e-business applications](#)
 A. Negri, A. Poggi, M. Tomaiuolo, P. Turci
 May 2006 **Proceedings of the fifth international joint conference on Autonomous agents and multiagent systems AAMAS '06**
 Publisher: ACM Press
 Full text available:  pdf(320.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web services are increasingly utilized by organizations that want to improve responsiveness and efficiency. While they may be used in an isolated way, the need of integrating them as part of workflow processes is more and more felt. However the creation of applications composed of dynamically selected basic services entails facing two essential issues: how to efficiently discover Web services and how to allow and facilitate their composition. In this paper, we propose an agent-based framework rep ...

Keywords: agent-mediated e-business, ontology, security, service discovery and composition, web services, workflow

- 12 [Overview of some patterns for architecting and managing composite web services](#)
 B. Benatallah, M. Dumas, M.-C. Fauvet, F. A. Rabhi, Quan Z. Sheng
 June 2002 **ACM SIGecom Exchanges**, Volume 3 Issue 3
 Publisher: ACM Press
 Full text available:  pdf(126.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The composition of Web services has gained a considerable momentum as a paradigm for enabling Business-to-Business (B2B) Collaborations. Numerous technologies supporting this new paradigm are rapidly emerging, thereby creating a need for methodologies that


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 Terms used **SAML** and **open** and **interoperable**

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1 [An integrated approach to federated identity and privilege management in open systems](#)



Rafae Bhatti, Elisa Bertino, Arif Ghafoor

 February 2007 **Communications of the ACM**, Volume 50 Issue 2

Publisher: ACM Press

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Online partnerships depend on federations of not only user identities but also of user entitlements across organizational boundaries.

2 [Privacy protection: Managing privacy preferences for federated identity management](#)



Gail-Joon Ahn, John Lam

 November 2005 **Proceedings of the 2005 workshop on Digital identity management DIM '05**

Publisher: ACM Press

 Full text available: [pdf\(207.65 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We have witnessed that the Internet is now a prime vehicle for business, community, and personal interactions. The notion of identity is the important component of this vehicle. Identity management has been recently considered to be a viable solution for simplifying user management across enterprise applications. The network identity of each user is the global set of personal credentials and preferences constituting the various accounts. The prevalence of business alliances or coalitions necessi ...

Keywords: identity management, policy languages, privacy

3 [Privacy Preserving Trust Authorization Framework Using XACML](#)

U. M. Mbanaso, G. S. Cooper, D. W. Chadwick, Seth Proctor

 June 2006 **Proceedings of the 2006 International Symposium on on World of Wireless, Mobile and Multimedia Networks WOWMOM '06**

Publisher: IEEE Computer Society

 Full text available: [pdf\(244.14 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

Nowadays many organizations share sensitive services through open network systems and this raises the need for an authorization framework that can interoperate even when the parties have no pre-existing relationships. Trust Negotiation is the process used to establish these first relationships, through the transfer of attributes, embedded in digital credentials, between the two parties. However, these attributes may themselves be considered sensitive and so may need protection from disclosure. I ...

4 [Mobile services and technology track: A conceptual approach to information security in financial account aggregation](#)



Manish Agrawal, Hemant Padmanabhan, Lokesh Pandey, H. R. Rao, Shambhu Upadhyaya

 March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**


Publisher: ACM PressFull text available:  pdf(173.70 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

An important dimension of mobile computing is the ubiquitous and location-independent availability of data. Aggregation is the ability to electronically access and display personal account information from disparate sources through a single identity. The client financial data is assembled in an organized format providing meaningful summarization and analysis. The prevalent methods of aggregation pose issues in information security and assurance. Utilizing advances in Internet technology such as ...

Keywords: account service providers, aggregation, identity service providers, scraping

6 Interoperable Web services for computational portals

Marlon Pierce, Geoffrey Fox, Choonhan Youn, Steve Mock, Kurt Mueller, Ozgur Balsoy
November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**

Publisher: IEEE Computer Society PressFull text available:  pdf(278.00 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computational web portals are designed to simplify access to diverse sets of high performance computing resources, typically through an interface to computational Grid tools. An important shortcoming of these portals is their lack of interoperable and reusable services. This paper presents an overview of research efforts undertaken by our group to build interoperating portal services around a Web Services model. We present a comprehensive view of an interoperable portal architecture, beginning w ...

6 Virtual enterprise access control requirements

M. Coetzee, Jan H. P. Eloff

September 2003 **Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology SAICSIT '03**

Publisher: South African Institute for Computer Scientists and Information TechnologistsFull text available:  pdf(126.63 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current developments in IT point towards the formation of loosely coupled enterprises, often referred to as virtual enterprises. These enterprises require both secure and flexible collaboration between unrelated information systems. Web services technology can be used as an ideal platform for realising virtual enterprises throughh their ease of integration, flexibility, and support of XML vocabularies. To ensure the successful implementation of Web services within virtual enterprises, new approa ...

Keywords: B2B, SOAP, XML, access control, design, federation, management, roles, security, standardization, trust, virtual enterprises, web services

7 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web

Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**

Publisher: ACM PressFull text available:  pdf(301.14 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

8 Security watch: Standards insecurity

Rebecca T. Mercuri

December 2003 **Communications of the ACM**, Volume 46 Issue 12

Publisher: ACM Press